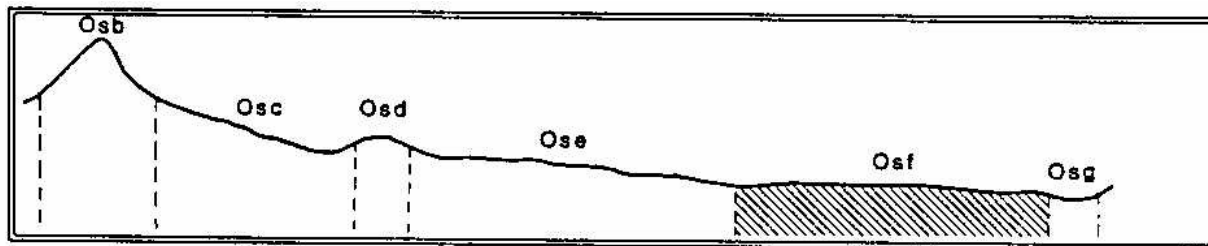


Map Unit:	ORDOVICIAN SEDIMENTS, VERY GENTLE SLOPES	Map Unit Symbol: Osf
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General Description:

These very gentle slopes occur in close proximity to the drainage depression (Osg) on Ordovician sediments in the south-west and north-east of the Shire. Land use is restricted by the tight, mottled and relatively shallow depth of clay, and the low position in the landscape does have an inherent susceptibility to become saline.

Site characteristics: **Site No. 29**

Parent material Age: Lithology:	Ordovician Sediments	Depth seasonal watertable:	< 2 m
Landform Pattern: Element:	Undulating low hills Very gentle slopes	Potential recharge to groundwater:	Low
Slope common: range:	2% 1-3%	Flooding risk:	Low
Rock outcrop:	0%	Drainage:	Imperfectly drained
		Depth to hardrock:	1.0 m
		Proportion of Shire:	4.4%

Native vegetation: River Red Gum, Grey Box, Black Wattle
Present land use: Grazing (native pasture – major, improved pasture – minor)

Land degradation:	Water erosion		Wind	Salting	Acidification
	Sheet/rill	Gully			
Susceptibility	Low	Moderate	Moderate	Moderate	Moderate
Incidence	Low	Low	Nil	Low	Low

Soil profile characteristics:

Permeability (measured - average, range): (estimated):	100 mm/day -
Available water capacity:	75 mm H ₂ O
Linear Shrinkage (B horizon):	Low (estimate)

Soil profile description:

A₁	0-11 cm	Very dark brown (10YR 2/2) loam, weak granular structure 2 mm, rough fabric, loose consistence, pH 5.5. Abrupt transition to
A₂	11-36 cm	Pale brown (10YR 6/3) silty loam, weak subangular structure 2 mm, rough fabric, very weak consistence, few fine sandstone and ferruginous fragments, pH 6.0. Abrupt transition to
B₂₁	36-48 cm	Yellowish brown (2.5YR 5/4) light clay, common fine faint grey mottles, weak angular blocky structure 4 mm, smooth fabric, moderately weak consistence, few fine sandstone fragments, pH 6.5. Sharp transition to
B₂₂	48-80 cm	Strong brown (10YR 5/6) clay, common faint orange mottles, moderate angular blocky structure, firm consistence, few organic segregations, few medium sandstone fragments, pH 6.5.

Soil classification:

Factual Key (Northcote): Dy 3.22
 Australian Soil Classification: Mottled Dystrophic Brown Chromosol, moderate medium loamy, non-gravelly
 Unified Soil Group: NA

Interpretation of soil analyses*

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A	5.5*	NA	NA	NA	NA	NA	NA	M	L
A ₂	6.0	NA	NA	NA	NA	NA	NA	L	L
B ₂₁	6.5	NA	NA	NA	NA	NA	NA	L	L
B ₂₂	6.5	NA	NA	NA	NA	NA	NA	L	L

VL : Very Low L : Low M : Moderate H: High VH : Very High
 D: Deficient S: Satisfactory T: Toxic ** Acid NA : Not available

Land capability assessment

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	C ₃ T ₂ S ₄	Shallow soils and low available water capacity
Effluent disposal (septic tanks)	4	Imperfectly drained, shallow depth to bedrock
Farm dams (earthen)	4	Imperfect site drainage
Building foundations * slab	4	Imperfect site drainage
* stumps/footings	4	Imperfect site drainage